

```

*          *          *          *          *          *
L-LDST-L-----RETNS--LPNSLAES--TCYLAPAFRRADSVPCVEMDMD
T-RPIP-LC-----PSKPNC--RPNSLAGS--TCYLAPAFCRADSLRLLEMDMD
-----MDPMD
ICVSAT-TC-----SPPPPCSSHHPHLLQSDSSFL-PLFFR-----MEPMD
ESPPATRSCLRAHRRRPPSPSSGPPVPGGTRRRRRPQAQPSRFR-----RRGMDPMD
-----MDPMD
-----MDPMD
-----MDPMD
60

```

```

**** ** **** ** ***** **** ***** ***** **
IVGKSKEDVSLPKSTMVKI I KEMPLPDVVRVARDAQDLLVECCVEFINLLSSESNEVCSRE
IVGKSKEDVSLPKSTMFKI I KEMPLPDVVRVARDAQDLLVECCVEFINLLSSESNEVCSRE
IVGKSKEDVSLPKSTMFKI I KEMPLPDVVRVARDAQDLLVECCVEFINLLSSESNEVCSRE
IVGKAKEDASLPKATMTKI I KEMPLPDVVRVARDAQDLLIECCVEFINLVSSESNEVCNKE
IVGKSKEDVSLPKSTMTKI I KEMPLPDVVRVARDTQDLLVECCVEFINLLSSENNDVCSRD
IVGKSKEDVSLPKSTMTKI I KEMPLPDVVRVARDTQDLLVECCVEFINLLSSENNDVCSRD
IVGKSKEDASLPKATMTKI I KEMPLPDVVRVARDAQDLLIECCVEFINLVSSENNDVCNKE
110

```

***** ** *** ** *** ** ** * * * * *

EKKTIAPEHVIKALSDLGFRYEIEEVYAAEQHKLETL-DSPKAGKFT-RIEMTEEEAAVA
EKKTIAPEHVIKALSDLGFRYEIEEVYAAEQHKLDTL-DSPKAGKFT-GIEMTEEEAAVA
DKKTIAPEHVLRALQDLGFRYEIEEVQAAEYHHKHDTL-DSPKASKFT-GVEMTEEQAAVA
ERRTIAPEHVLKALGVLGFGYEIEEVYAAEQHKLETMQDLSLKGAWSNRAEMTEEEAALA
DKKTIAPEHVIRALQDLGFKYEIEEVYAAEQHKLETL-DSPKATKFT-GIEMTEEEAAVA
DKKTIAPEHVIRALQDLGFKYEIEEVYAAEQHKLETL-DSPKATKFT-GIEMTEEEAAVA
DKRTIAPEHVLKALQVLGFGYEIEEVYAAEQHKYEITMQDTRSVKWNPCAQMTTEEEAAAA

121 180

SEQ ID NO:04
SEQ ID NO:06
SEQ ID NO:10
SEQ ID NO:14
SEQ ID NO:20
SEQ ID NO:22
SEQ ID NO:41

SEQ	ID	NO:04
SEQ	ID	NO:06
SEQ	ID	NO:10
SEQ	ID	NO:14
SEQ	ID	NO:20
SEQ	ID	NO:22
SEQ	ID	NO:41

SEQ	ID	NO:04
SEQ	ID	NO:06
SEQ	ID	NO:10
SEQ	ID	NO:14
SEQ	ID	NO:20
SEQ	ID	NO:22
SEQ	ID	NO:41

FIG. 1A

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SEQ ID NO:04	***** * * * * * * * * * * * * * * *	181
SEQ ID NO:06	EQQRMFAEARARNNGAPKPKPEQEPPQLPQAQPQ--LQLHTEPQQPMQSQVQLHSQTQ	
SEQ ID NO:10	EQQRMFAEARARNNGAPKPKETEQEPPQQPQAQPQ--LQLHTEPQQPVQSQVQLHSPTQ	
SEQ ID NO:14	EQQRMFAEARARNNGAANKPEPEQAQQQTQPPQ--PQLHPQPQQPLQPLQLLHPQPQ	
SEQ ID NO:20	EQQRMFAEARARNNGAI--QSKEPADQ-S-----	
SEQ ID NO:22	EQQRMFAEARARNNGAANKPEPALEPQNQPQQPPQPHLQLHPQAQQPPQPQLHHPQS	
SEQ ID NO:41	EQQRMFAEARARNNGAANKPEPALEPQNQPQQPPQPHLQLHPQAQQPPQPQLHYPQS	
	EQQRMFAEARARNNGGVSPQPEHPETDORS-----	240
		181
SEQ ID NO:04	* * * * *	
SEQ ID NO:06	HY---LQPQLQLHHQPQQLPQVQLHSQPQL-----QPQVHLHPQPQLPPQLQVHQQLQQ	
SEQ ID NO:10	HS---LQPQVQLHPQPQQLPQVQVHSQTQLHPQ-PQPQVQVHPQLQQLPQLQAHSQPPQ	
SEQ ID NO:14	QQPSQLHPQQLLHPQSQQTPQ---PQPQVHPQ-PQQPP-QLQPQPQLLQPPQLPQQQLQ-	
SEQ ID NO:20	QQPLHPQLQPYTQAPPQQPLHPQLQPYTQAPPQQPLQPLQLYPQAQPEQPLQPQSSGST	
SEQ ID NO:22	QQPL---QPFTQAPPQQPLHPQLQQYTQAPPQQPLQPLQLYPQAQPEQPLQPQSSGST	
SEQ ID NO:41	-----	241
		300
SEQ ID NO:04	PPQVQVHQQPEVQPQEAQLQSSAQQTSPQPQAQ-----L-QSQGHSQAQLQAGLLGQ	
SEQ ID NO:06	P-QVQIHPQPQ-QPPQVQLQSSVQQTSPQPQVH-----LYNHRGGSQAQLQPQLPGQ	
SEQ ID NO:10	-PQSQLPPQPQ-QPPQLQLQSLHPQPQQPPQLQ-----P-QPQLHQQPQPQAEQLSQ	
SEQ ID NO:14	-----	
SEQ ID NO:20	TGTCVISTAAPSATGTTAAATSAPAIPA-----ISTAAPSATPADASAAAAA	
SEQ ID NO:22	TGTCVISAAAPSATGTTLLQPPPPQSQSQLHQQPQTLPVPPQPQPPLQLQPPQL	
SEQ ID NO:41	-----	301
		360

FIG. 1B

SEQ	ID	NO:04	
SEQ	ID	NO:06	
SEQ	ID	NO:10	
SEQ	ID	NO:14	
SEQ	ID	NO:20	
SEQ	ID	NO:22	
SEQ	ID	NO:41	

*

LQTQAQTGPPDMS
LQTQGQTGPGIDS
SQPQTEHGLD-SS
-----LES
AATSTP-----AT
TQLQAEHGLDWDS
-----PQS
361 373

FIG. 1C

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SEQ ID NO:28	1	***	***	*****	**	**	****	*	***	*	*****	*	*	
SEQ ID NO:32	1	---	MRKKL	TRFP	PAARI	KKIMQ	ADE	DVG	KIALA	VPVL	VSRA	LE	FLQ	DLIDRTYEITLQS
SEQ ID NO:34	1	---	MRKKL	TRFP	PAARI	KKIMQ	ADE	DVG	KIALA	VPVL	VSRA	LE	FLQ	DLIDRTYEITLQS
SEQ ID NO:40	1	---	MRKKL	TRFP	PAARI	KKIMQ	ADE	DVG	KIALA	VPVL	VSKA	LE	FLQ	DLIDRTYEITLQR
SEQ ID NO:42	1	---	TRRKL	TRFP	PAARI	KKIMQ	ADE	DVG	KIALA	VPVL	VSRA	LE	FLQ	DLIDHSYKITLQS
			MPS	KKKYN	ARFP	PAARI	KKIMQ	TDE	EIGK	VAA	VPVI	I	SRA	LE
														60
			***	***	*	***	***	*	***	*	*	*	*	**
SEQ ID NO:28	61	GAK	TLS	FLK	Q	CVK	RYSS	F	FL	T	EV	V	S	KV
SEQ ID NO:32	61	GAK	TLS	FLK	Q	CVR	RYSS	F	FL	T	EV	V	N	KV
SEQ ID NO:34	61	GAK	T	M	N	S	L	H	L	K	H	C	V	Q
SEQ ID NO:40	61	GAK	TLS	FLK	Q	CVK	RYSS	F	FL	T	EV	N	KV	P
SEQ ID NO:42	61	NAK	T	M	T	T	S	H	L	K	Q	C	I	E
														120
			***	***	*	***	***	*	***	*	*	*	*	*
SEQ ID NO:28	121	DP	EN	E	S	R	S	S	K	M	---	A	I	R
SEQ ID NO:32	121	DP	EN	E	S	R	S	S	K	M	---	A	V	R
SEQ ID NO:34	121	N	D	S	D	E	E	A	K	R	S	K	M	H
SEQ ID NO:40	121	DP	EN	E	E	P	R	S	S	K	M	---	P	I
SEQ ID NO:42	121	K	N	G	M	G	T	K	S	K	---	---	---	---
														180
			*	*	*	*	*	*	*	*	*	*	*	*
SEQ ID NO:28	181	GE	T	---	---	---	---	---	---	---	---	---	---	---
SEQ ID NO:32	181	GE	A	---	---	---	---	---	---	---	---	---	---	---
SEQ ID NO:34	181	S	N	P	Q	N	T	S	V	A	M	D	S	G
SEQ ID NO:40	181	S	E	P	---	---	---	---	---	---	---	---	---	---
SEQ ID NO:42	181	S	E	Q	E	D	E	S	E	D	T	D	G	E
														240

FIG. 2A

SEQ ID NO: 28	T- - - - NSKVEEA-STDHQ- - - - SDWMPDATTGNI GVGPSFGHLTVQVDEDE-DYDNED-
SEQ ID NO: 32	EI PAPNPKEEAKNDHQQ- - - - PDWMPDAIGNIGVGP SGFGLHTVQVDEDE-DYDNED-
SEQ ID NO: 34	SVPEPDASVPPEPTESKHEEI PGWSLSD-VDKMAIDSLQLAQLGRPLEEDEEDYDEEEEG
SEQ ID NO: 40	T-PAVISKVEEA-STNHQ- - - - PDWMPDAIGGIGVGPSSFGHLTVQVDEVE-DYDNED-
SEQ ID NO: 42	SAPD- EEDEEDYDS- - - -
	241
	299

FIG. 2B

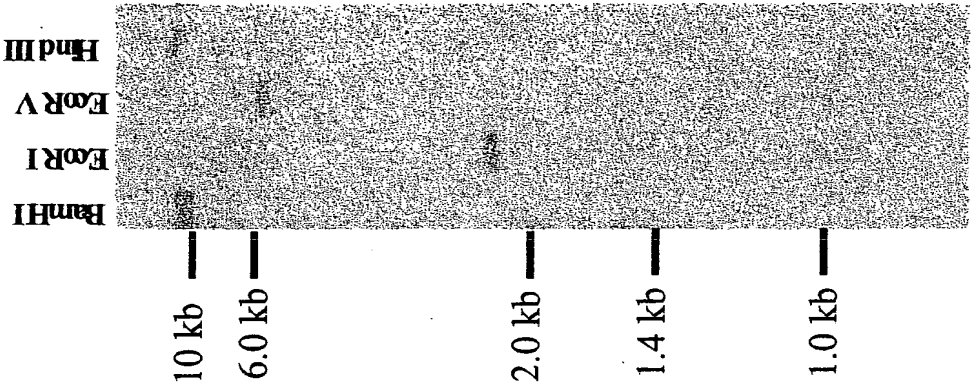


FIG. 3B

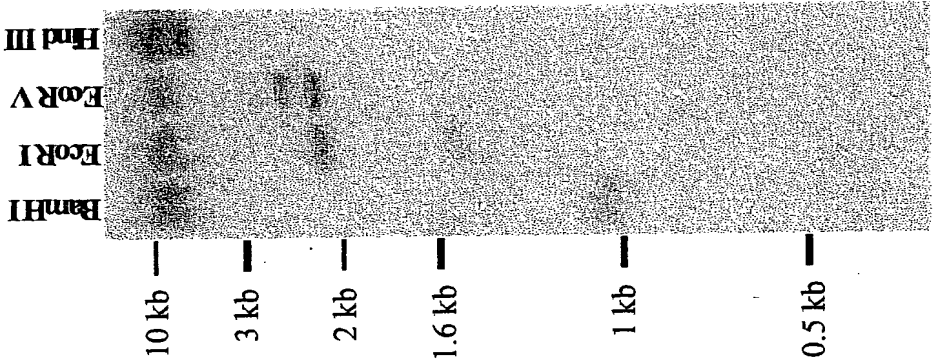


FIG. 3A

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pBDGal4::rDRAP1



pADGal4::rDr1



FIG. 4A

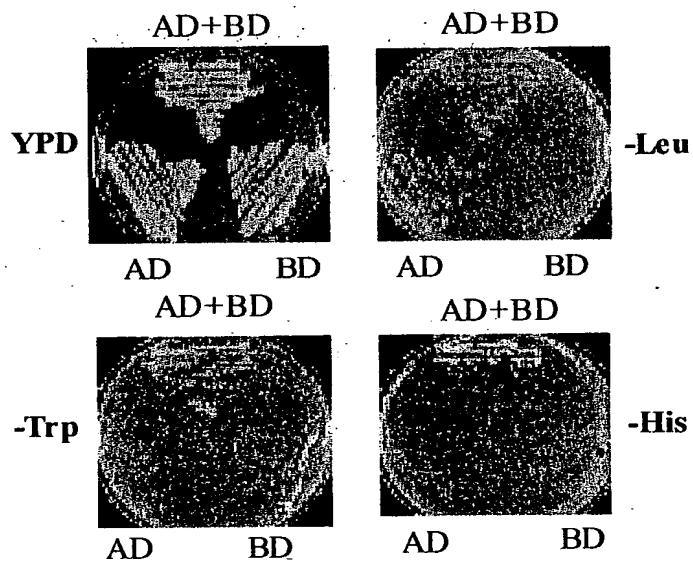


FIG. 4B

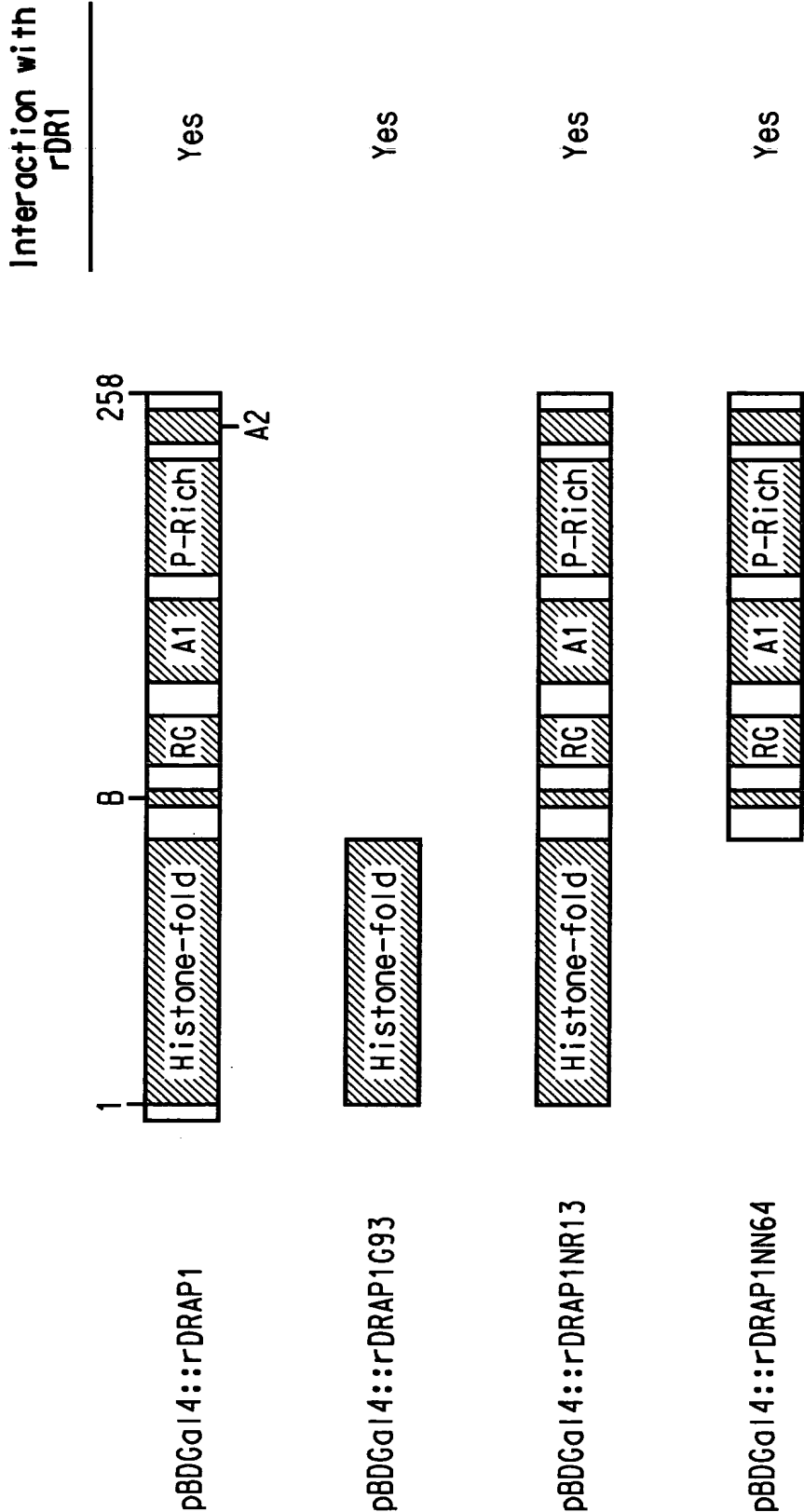


FIG. 4C

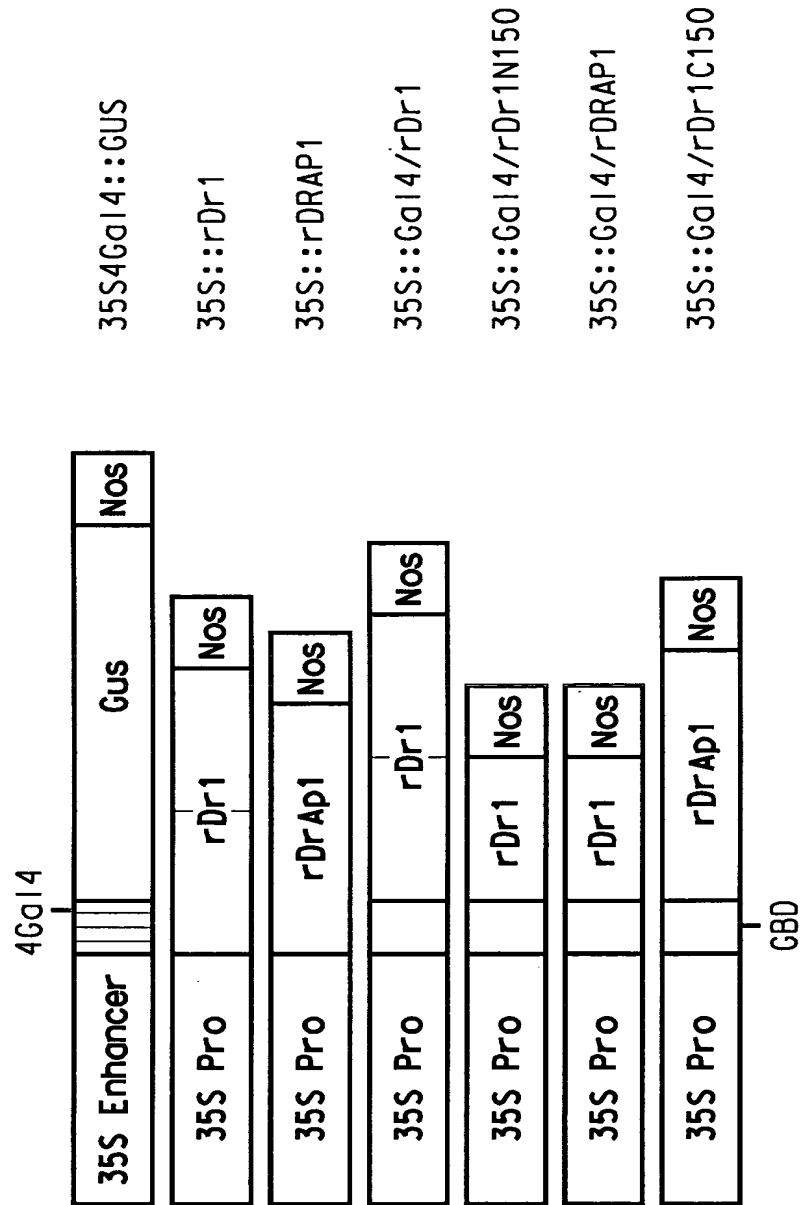


FIG. 5A

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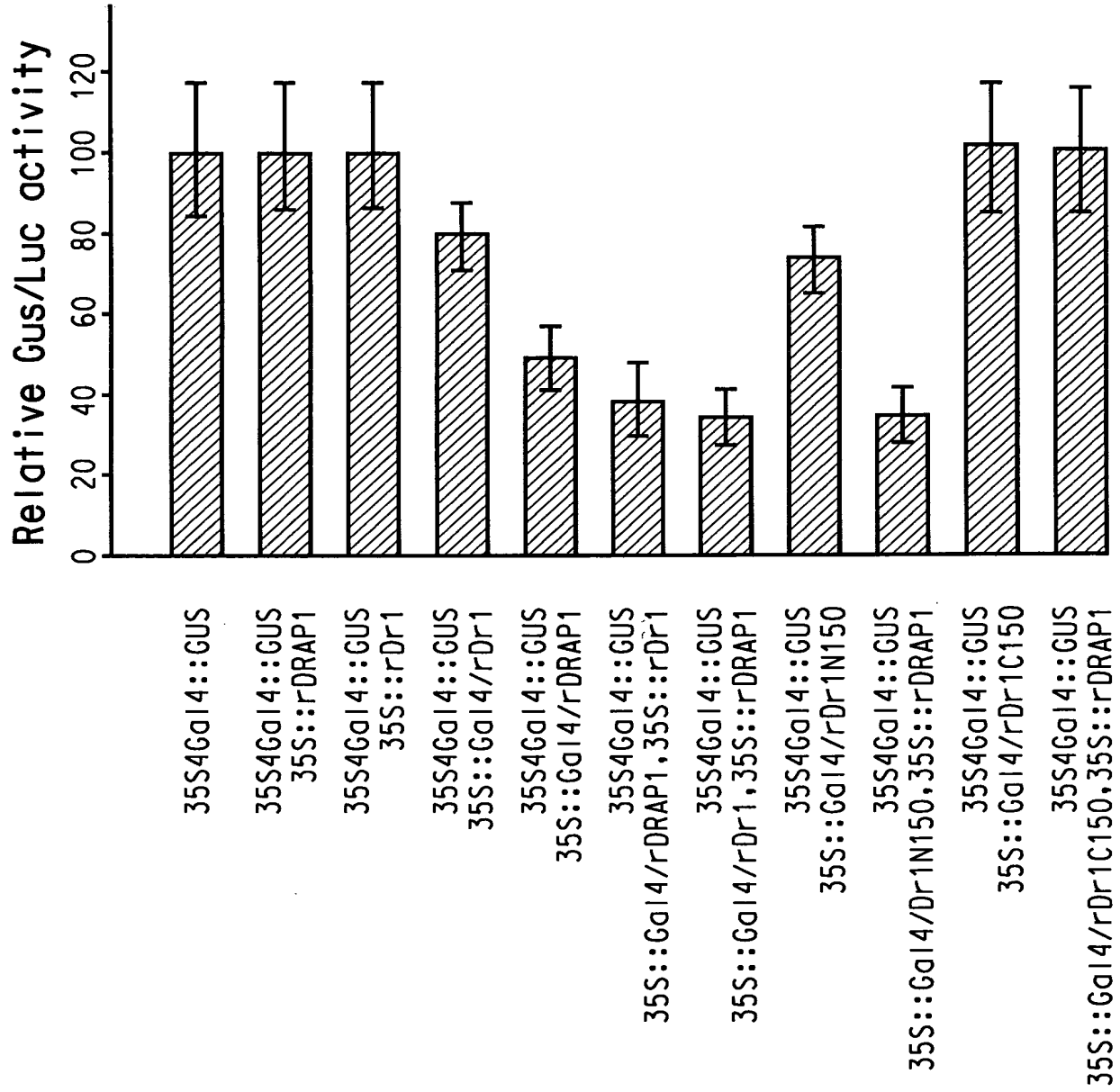


FIG. 5B

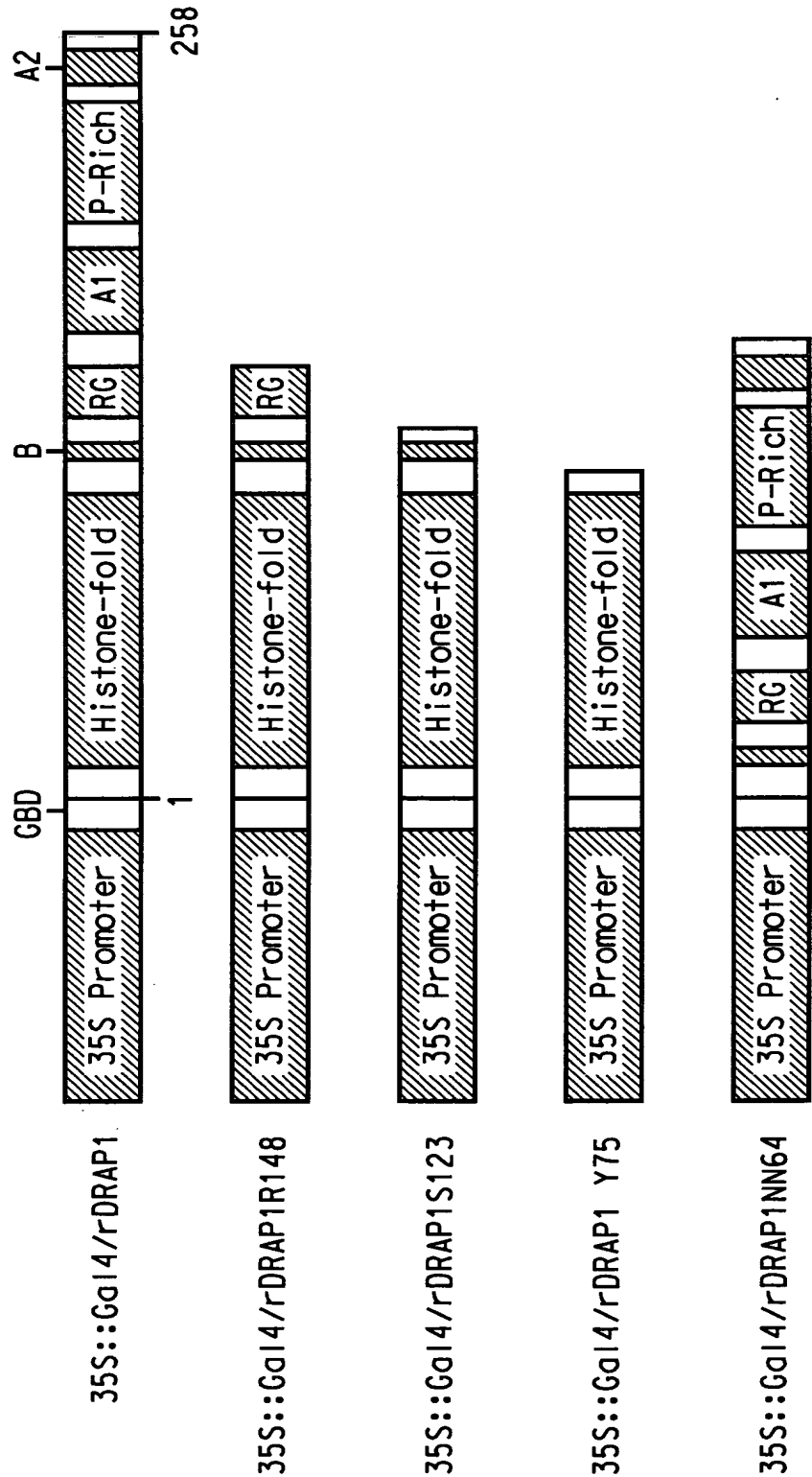


FIG 6A

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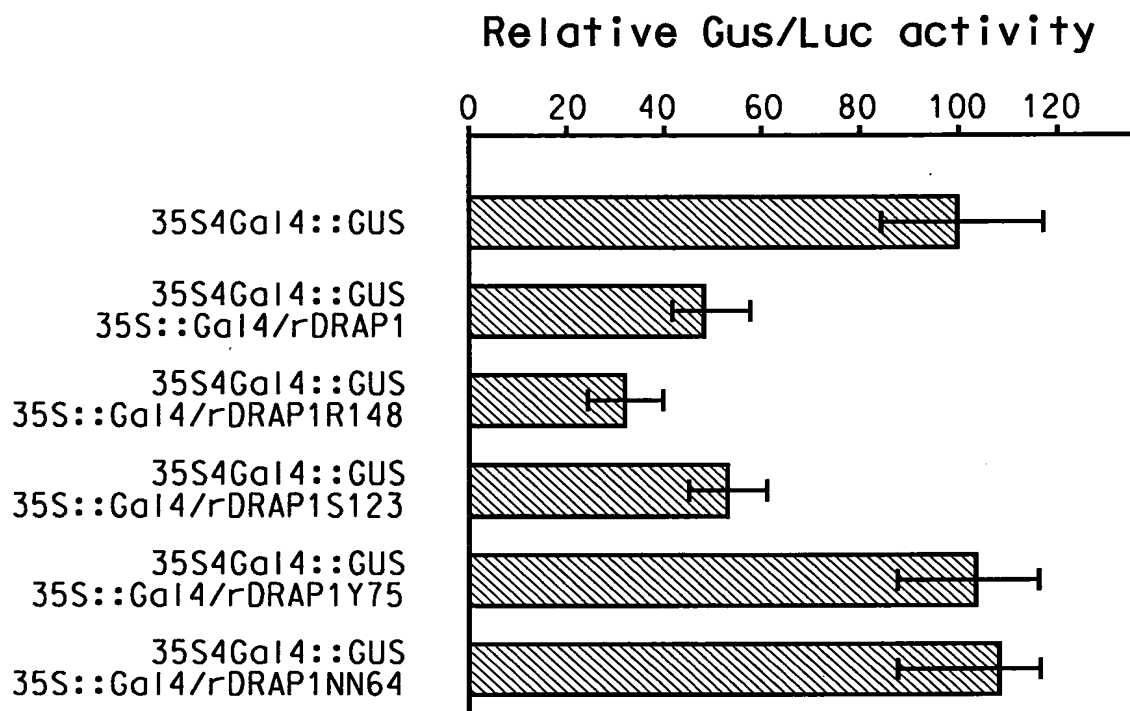


FIG. 6B

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pRTL2-mGFP

mGFP

p35S::rDr1/mGFP

rDr1	mGFP
------	------

p35S::rDRAP1/mGFP

rDRAP1	mGFP
--------	------

FIG. 7A

DIC



GFP



mGFP

rDr1/mGFP

rDRAP1/mGFP

FIG. 7B

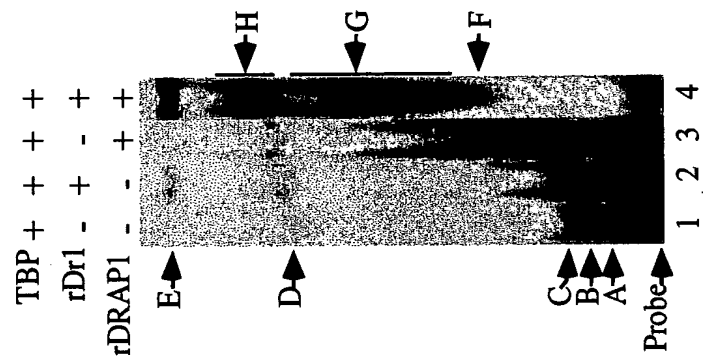


FIG. 8B

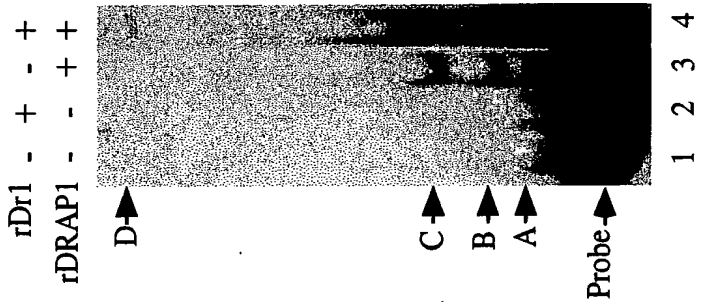


FIG. 8A

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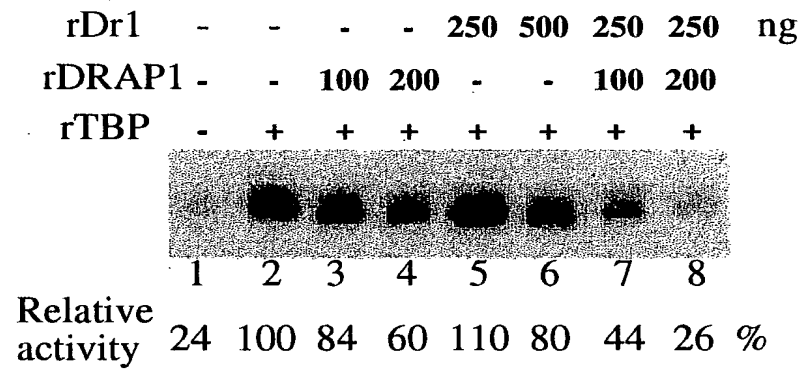


FIG. 9